Ensp NO17 Effects of Gold . James P Brydo

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Inaugural Difertation

On

The Effects of Cold

By

(papel)

Sames P. Boyd

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New York

tracted the as now. It greatly to many a knowledge beforence. I, tetion, the pe wither improve surdy been for form of the period in their which is at such whole

Effects of Gold

The subject of Cold, and its offerts had attracted the altertion of the sund surement successed new Mr great interest and importance, have given take to suremy operated productions. It wish punch difficience, of these circumstances, it is with such sufficience. I submit to spens I am assure that Some neither improve, nor add any thing, to what had all neither improve, nor add any thing, to what had all neither improve, nor add any thing to what had all neither improve, nor add any thing to what had all neither improve, nor add any thing to what had all the facts are to thing of attention, contained in the facts were weether of attentions, contained in their workings, relating to the this interesting subjects, it all that can be expected from the standard dead, where opportunities of observation are reached

ily limited; Su the for the, when only a afluence; and Tiel but meret by degree. With Why a relative to previous sensa i cold , at diff. ugs . This may ifac, or in a s water with so lost hands he how the preater. will finisted; and whose information therefore is

In the following remarks, I propose, after some courses of contractions in the offsets of Cold to conside in fast its effects when applied to the solved business face of the body; producing that state called elephone in the planement sphile the inspected to all the solve is subjected to its influence; and lattle, the teatment.

tilet is som generally consistend, as nothing maticied, but much the absence of head in a gente of the degree. With respect to the Human before, it is valy a relative specifien, and depends alloyother or the parind tentations; so that the same degree of but or cold, at different thins, excited quite opposite feelings. This may be dissipated by placing one hand now a five or in a soppl of warm water while the thin it is water with pome ice, or other cold between the pertention with pome ice, or other and the thin it is water to the some inconsisted into water of the purter dead to the period inconsisted into water of the pure

I fe that of Edd in while one the Situal cold is us her no contro but of Metures. til depende on a tile. Gold is see I that peak it the vins to the in the situated we hor summents a and an the com ind of the From to physical char how of the Laple will be that of cold to the hand that was wear the fire, while on the century the other will feel warm.

Natural cold is owing to physical causes, over which man head no controll, and which obey the common laws of Mature. The temperature of different coun tries depends on a variety of incumstances. Elevated situations are colder than those that are less so, although both situated in the same degree of latitude. Gold is modified by the action of the winds, and depends upon the quarter from whence they come In this part of the globe Morth winds are always cold, owing to the immense fields of ice, and the moun. tains situated in the region from whence they come whose summits are steenally covered with how south would, on the contrary, paping over the burning regions of the dropics, are of a more elevated temperature lold climates have evidently great influence and

to the summer , said instance of your information the playment of bandless have please. The diministent from of the Laplandon has been accounted for in

& maures . sel doined, wides settistics. Strivi su chinate, to imensions: can misufections ex In Northern rea leta period. form: nor is partity as in ul climates, was at the a much sarlier the of his own he, and other to wacuation trace, and los I long interal ing the Sum

this manner. This degraded portion of the human spe sies drives, widently from the climate, its distinctive chose activistics. Steering forever with the inclemency of a seone climate. The destructive action of an very temperatime; hature fettered in her motions, shrunk in her amendiond: can produce only, beings, whose playsical imperfections explain their almost barbarous condition? In Northern nations, "Duberty is proteacted to a such later period. The females do not ment truste so soon: nor is that fluid discharged in so great a quantity as in more temperate climates. In Tropieal climates, the Catamerica make their appear. ance at the age of clever years, and often at a such carlier paired, and are discharged in the quan tity of six ounces, or more; whereas in Nambohat ha, and other countries of the same temperature the evacuation is not perceived till the age of twee ty one, and even there is in small quantity, and it long intervals; and in many instances, only during the Summer Months. The Jemales of these

ir obtuse in It wound wi 4. Whereas, the noduced in an Southern part, Apravance of Mature in Mos is mable to an to have recourse poque regions are said to be les prolific.

The intive of horther countries and endowed with the total little purished by when compared with the inhabitation of warm chimater. It is paid by travelless that in the paripheters of the Polis, the natives we work to be to the party bear the day set wound without pain which they hear the day set wound without pain which according to Discound and Incouver. The imbabitant on the perthe cost of this certificate, the whather the perthe cost of this certificate, the stiplets the inflation of the Maries, the stiplets from a treatment of the produced to an objection, on a reduce of any other downthan part, violant convultions, and tetament

The influence of cold is also visible on the infair amount, and superable; have the stander appearance of the individuals of both their kingstond are made to then their climats. These minuals that are made to sudue, or to sist in, an atmosphere, whose temperature is below the freezing point of two the, have recover to such places of abode in Mute,

I w protected bay Hamselves inter in a sta abel to deep w. the way, to a sua of the is two, and are p in suited to and that the to with wool run in the from I with Hick part of the · lis physical, on the rest of nk; wit "has a is are protected from the sweety of the climate. Some bury Humbelves in the Carthe, and there pap the counter in a state of torpidity. The fish betake them selved to deep waters; while the feathered tribes wing their way, to a more congenial thy. The different genera of the inferior animal, are found, we see in situations adapted respectively to their constitutions; and are protected from cold by natural covungs suited to their different conditions. Houce we find that the animals of the Found your, are covned with hair: those of a more temperate clim. ate, with wool; while those that are destined to roam in the pozen region of the Month, are cover ed with thick fur. Man. however is found in every part of the Globe, maintaining a superiority in his physical, as well as in his moral character wer the rest of creation.

The afficiety of bodies for Calone is remarkably weak, at it had a tendency to poparate from there bod us that contain it in except and combine with any

How having a Pru with until it is i produced The bank as hing, and a long bodies wer sul soon be e justine of which must. The live sisting cold, an ustine, "inder the I under the for hims the most sus. His pow hunay body in Jel: bids have ids-blooded au In than in the Thus are many Whilif in a stick

the having a smaller quantity, that it comes in contact with until it is equally distributed, or an equilibrium is produced. This property of Caloric is winced, both in living, and dead matter; but it is obvious, that if living bodies were not populsed of other properties, besides those it holds in common with organic matter, life must soon be extinguished in an atmosphere, the time perature of which has been reduced below the freezing point. The living body, however enjoys the power of resisting cold, and preserving nearly the same lemp. native, under the progen climate of the Actic regions, as under the burning atmosphere of the Fried zone, during the most severe winters, and the hottest sum mees". This power of generating heat exercised by the human body in a state of health, is about 98' of Falt: birds have a higher temperature, while in cold-blooded animals, (as they are called,) it is low. or than in the human body.

There are many remarkable instances on record, which which is no sticking manner, this power of the lun-

now system to rede & Rapian Compies. mutry attend to M in with little, or a sometre is at 10. (Meanwar; and to water all the a. And as Me. but were wanted. his of pound with inter cold, we No plais; cold, which we no more; The body more liable to such more prompte whom the action and feeble; and w

man system to resist cold. Ar. Tooke in his View of the Rupian Crupics, observed, that the inhabitants of that country altered to their ordinary occupations in the open in, with little, or no inconvenience, when the ther. mometer is at 10. 15, or even 20 deques below the zero of Reaumer; and that woman will stand ninsing him we, through holes in the ice, for four or five hours to gether, often bace-foot, with their hands deipping in the water all the while, and their clothes stiff with ice. And as Mr. Samt looper says, if stronger evidence were wanted it might be obtained from the historics of pasons who have survived the most intaine winter cold, in Nova Tembla, in Hudson's bay, and in dibain; cold, which caused were the board to be seem no more; the white for alone being left with man There are many circumstances that render the body more liable to the effects of cold. It acts with which were promptitude on these advanced in life.

in whom the action of the heart and artaics is slow and feeble; and whose digestive apparatus does not

& muscles; and It by previous ex Isa there is a tel bowers. I sig Heep, and degree lower. toted state fro sugue of cold, In would pro heal effects of juty performe a supmer the functions with so smooth vigens, on passed in whom their it a mant of several purpy, martin of the unteless, and also where the regime has been softened where there is a suisible defect, a diministrate of the people are sure liable to the special periods and sure the several people are sure liable to the special according to Humber, the temperature of the body is the dependent of the sure of the long is the dependent of the sure a delicated state from disease. In such consultances a degree of Cold, which is other conditions of the sure time, would be sured to the produce we deletered if feets would in this case, be sufficient to delamine the general a bocal effect of this agent

on the contrary, in young, and vigrous period all the function of the animal commy being partially performed, and have the surfacing of the large projecting a great degree of vibility; the exact of the developed when the cold is no longer felt mades it capable of powerfully influencing the the

ster particula stion of the vita in effects. til those person and continually a une able ? but of their tie lich, to a per wild produce sur, rigidity, sold only be and perseveran hard application benne thickenes ad protection ful consequence postered patientaly the circulating, and of causing re seion of the cital power, which thousand resist its delete-

rious effects

"Habit modifies the effects of cold, hence we find that those persons who are bow in Morthern countries, and continually exposed to the seventy of the weather we more able to endure its effects, than those habite ated to a warmer climate, or who pap the quater part of their time within dons. So that a temperature which, to a person accustomed to the operation of cold would produce no unpleasant effects; in another from a more suild climate, would be followed by a shio wing, rigidity, and a degree of immobility, which could only be overcome by a multiplicity of energy and perseverance in the use of exercise. By the con timed application of cold, the cutiote, and true skin become thickened, and serve as a natural covering and protection to the newous filements, from its pain. ful consequences. This thickning of the okin is very manifest on the hands of sailors, and stage-divers

Jumes of the bility lively my courequeu the power of feets of exter Richerand the bole countenan w more or b yests are res to be overcome yue, instead n of any other class of passes, whose occupation causes their frequent exposure to the weather.

Temperament, also influences the effects of cold Persons of the Sauguine temperament characterized by good activity, and predominance of the Sanguiferous system. a strong prequent, and regular pulse; neurus susceptie bility lively xc, are more prequently met with than any other in Morthern climates; in fact, it is the neces say consequence of the constant and energetic reaction of the power of the circulatory system against the ef. fects of external cold. On the contrary, those who are, of what the Aucients called the Polistons, and Richerand the Lymphatic temperament, marked by a pale countenance, the flesh soft, and all the vital pro w more or lep languid; in such persons, cold, or its effects are resisted with lep energy, and are more app to be overcome by its deleterious, and powerful of.

The application of cold to the body in a moderate degree, instead of praining injurious to its organs, has on

to entray, a sutrating the and perform cold, by the minual heat;) by the place to air, and o let. It is a liminished, who wered. His s to secretion; rice into the to increased sturally have su during the a booked up, a

the contrary, a benificial, and salutary effects by con contrating the vital forces, and thereby enabling all its functions to be performed with more vigor and energy. The bulse becomes stronger, and more prequent: the dijestive a gand perform their office with more energy, and the secretions are increased in quantity. A surderate degree cold, by thus promoting dijection, and giving activity to the circulation; (according to Richerand, two Druces of animal heat,) caloric is evolved in greater quantity, to pres. ply the place of that subtracted, and carried off by the air, and surrounding bodies, even before its lop is felt. It is sulutioned by some writers that thurst is diminished, while at the same time the appetite is in exasted. This may be accounted for, by the increase of the secretion; the augmented effusion of the Gastine juice into the Stomach promoting appetite: while the increased flow of saliva into the month, would naturally have a tendency to obviate thirst. In we see during the hot stage of fever, when the secretions are looked up, and the fances almost entirely destitute

I mostule, there stiens are restore Moderate Co sided with a bios a Sonic A w to destroy, a - und suore pair how the centre W. Mode, Scrote face exposed to pediene, by who nd puspication Jose, and con kins, producing Jan called Cuts of moisture, there is great thints but as from as the secutions are nestored, thirst disappears immediately.

Medicale cold New, applied to the leady and at saided with a proportionale nearline of the Systems, pur duces a Serie effect, New the Same agent Weat Huest as to destroy, at the same lime snables the System to

wish its deleterious influence.

But when cold is applied of greate intensity its effect are tweet apparent. The circulations Heinerful the small paper ficially explain is related, and isolated to prove a mate from the centre of the concelution, as the feet hands are some form the centre of the concelution, as the feet hands are expressed to the atmosphere, a then frigerific pretium, by which the atmosphere, a then frigerific pretium, by which the feet is consist of littene out perspectations is proposeful; the show becomet pale, and contract around the striking glands and have producing that pendium something, which has been called but Mossius, from its resemblance to the term of an inspeathered gottle. There is a special the

"Rees Cycl. art. cold

petion of tremble egitation of the I same is the rest that ring one of the wal were the shoes to reaction be moul; the ac more feeble: to him becomes of to cuticle is es En of the skin point of tembling one the volicle body, with payable agilation of the lower gave. The finges are becommeded and their medium in imported, and difficult made come tembling, importable, not being bedient to the will the same is the case with the feet, which also and is stand parts of the body, contract in size, this diministrate of buth in specieme parts, is paid to be so great, that rings, which were tight where the finger were of the standard times the finger were of the standard timesature, now doop off and were the slove fall from the feet.

The price of the perture by deque exclairling the reaction bears our preparation to the debildhing powers. He action of the heard and actions, become more field: the blood is usuaded in superficial parts more particularly the extended; where the kin becomes of a plining width or bluich clour, and he contide is wentically debilded. This disputuantion of the plin is relieved by last clitheletine in the sum of the plin is relieved by last clitheletine in the summarity wenter, and characteristic which contains a minute description of the plin is relieved with a martine, which contains a minute description of the plining of martines and cold, during wenter, at themselved one

kopse we a touble you they enter a a the activity of mee of activity utitue cold, les him, and with & which is a A I the whole oys to the sleep is for but acoused, an usting exercise, The dead in Theorem buy. The says that industral anding this warm bothing, almost sway day some of the men that this above if any wined blood from the Multimode, are been fully forgon; some base their arms, hands a face forgon in a leville bounce, the stim councy of some after they not a waren scoon.

At the is the stretch conveyin between the heart, and heart, the mergy of the better dipersing on the activity of the former, for the exciting influence of activity of the heart. The medium of the heart thursfree, being imprehed by the continued activity status cold, left actival blood is purpolled to the heart, and with diminished velocity, the emergence of which is a number property, and topon of the soluble system a most investibility and topon of the soluble system as a proof investibility for the proposed by to sleep is fell. The policial heart con, and if not account of the soluble system hapt analyse by violent, and under coasing systems, he sleeps to probe no purches.

The deadly winter seizes; shuts up saise;

Stretch's His property Lo have writ to usual atten lewer , says is thep is the feeld simply be some other ducing this He of parous have Elizabeth Wood with sticking; ried under the Baron La wante in we to swenty of And one his insust situle exceping old, Lays him along the snows, a suffered case,

Stretch'd out, and bleaching in the Mathem blast This properrity to sleep, is wentioned by all authors who have written on the subject: and appears to be the usual attendant of excepive cold. Mr. Hompson hower, says it is doubtful how for the state of Meets is the necessary consequence of the application old simply and appears to think there must be some other cucumstance present, capable of ad ducing this state. There are many instances recorded of pasous having sustained cold for a long time, without sincing much properrity to fall into this state. The remarkable, and interesting case of Elizabeth Woodcook, wentioned by many writers, is the most sticking; who, it is said, remained a week but ried under the mow, without sleeping a great deal.

manner in which the French soldiers perished from the security of the Rupian climate, states that a

instituted to teops, they for ful sumbuly rized Mew, med an involve whitely that asked at the of blood to int is by the cold w a necession tenally, to the

dimmes of right, palench of the countenance, a rol of idiotism, difficulty of speech, a even a total loss of this faculty, preceded death in them; and that they continued to march a longer, or shorter time in this half-lifeles situation supported by their companions. Then represented from the main body of the terops, they fell into ditoles of mow; when a pain ful rumbulp, followed by a lethagic diswrines, seized thew, which soon terminated their cartlely existence. He also remarks, that frequently before death, then was an unduntary discharge of mine, and sometimes a home or hage from the mose. Larry supposed that it was not unlikely that the heart, at the final moment was struck by paralysis; and that the functions of all the organs of life ceased at the same moment. Others considered the unmediste cause of death, to be a congestion; or determination of blood to internal organs. This, then, would be explain ed by the cold first operating on the capillaries , which can ses a necession of blood from the superficial parts, in turally, to the heart, and great ropels; these still ac-

ting , propel the But, when after ing influence is legius to react, infeebled by t which before we sing, propel the blood to the parts least affected by cold as the brain, where this flind a courselling, sometimally pro-

duced Apoplexy

There was formerly much dispute among physic dogists, concerning the manner in which cold produ as its effects, or in other words, about its mode of action I believe however, that at present, there is but me opin ion, viz. that it operates by subducting the animal heat, which is a general stimulant. Hence by its contin mance, all the vital functions, and actions of the sys. tour, are suferbled, debilitated, and ultimately arrested These are its direct effects, which are obviously redative. But, when after having continued for a time, its chill ing influence is suspended, or removed; the system begins to react; The heart and articles, if not too much enfeebled by this agent, act vigorously; and the blood which before was driven from the surface, and super ficial parts, leaving them pale, constricted, and almost destitute of sensation, now relians; and so increased in force, and celerity, are the survenents of the Sanguineous

ment that if pation, with al follow in its . stimulating offe Meets, so that shick subjequen of the almosphere is directly Ledar head to be eque tow, which is fied by the per Justus in a state La Cold, here. at al impulse, co towing that if not moderated by mitable remodely infam mation, with all its mential sequelos, more fact be follow in its ham. There are the indiscot, and

stimulating effects of cold.

Cullen divided its effects into Stimulant, You ic, and Sedative, but this division must have ausen from his confounding the direct, with the indirect effects; so that when he speaks of its stimulant pour a, he wears its indirect action, or the consequences which subjequently result in the ordinary lumperature of the almosphere, after the cold has resigned its place to a sure conquiral warmthe. But, although it is generally admitted, that the operation of cold is directly sodative, and indirectly of timulant, it ap - pearl to be equally true, that it has a different ac tion, which is directly Stimulant. This is exemple fied by the practice of sprinkling cold water on persons in a state of syncope, a Conoulious. Whether the cold, here a simply the water by its weatherincal impulse, contributes to neestablish the contrac-

wery to take strell is not to Hordvepels ste to thing imp that personed w buy as four, Je. Mr. San by opinion, w pros; and and, were only tion of the heart, that had here staid, is weakened, it is pet, I believe, well understood, it is consider and some home with the fallie may write in the buttle may write the fallie may be the fall of the

A question of great importance has been age tated by medical pulm, whether the human body can ever be restored, after having been progen. Rich ter says that it is not, atall. improprible for a ne every to take place, "when the blood in the heart itself is not turned toice; when this organ, and laye bloodsepels still petain a degree of vitality; and Have is no extravaration in the brain to render The thing impracticable" And be further aparts. that persons who have lain in a posen state as long as four, or six days, have been nestored to life. Mr. Sant Cooper however Hinks, and w my opinion, very justly, that Richter must be in error; and that the cases of recovery he men tions, were only instances, in which there had been a suspension of sensation, and voluntary motion,

but life was Jug: so vigoros pived of life . The tow, and hes by the operation of cold, whilst within the whole body, we even the greater part of it, had been actually in

a state of congelation.

The expression of Mr. John Hunter are alone sufficiently executives in this point. The expect this to the sufficience of a freezing medium of the temperature of the temperature of the Mr. John Soft, and succeeded in freezing them, and also the project of his expression, it decements good alone the pulgest of his expression, it decements, this he found great difficulty in firezing to sejecus were it powers of governing, and and sing hear, and ench he surroundrating quality of it has, that he duck and power of governments, the hard, that he had first her, the was above descripted in this instance. He can be for the history and the first were distinguished to the horse of the hear of the first an animal much he de-private of the hefer it can be forget.

The indication to be pursued in the treet. want of Applysia from Cold ; are first, to nection best to the body; and secondly, to specify respira-

tion, and restore the circulation.

sufficiently restor willow, stimulating were wint the stee Tus, and frequents & produce fever, He des applicable to By some it.

It is advised the all ventilated noon sel imbued with liction, should be Vigattic region; I in the mean to in to the pit of historial of agua in. To april the Ste Alkali to the

It is advised that the patient be brought into a well ventilated noom, and rubbed gently with flan nel imbued with stimulating substances; and that then fictions, should be applied more particularly to the Epigastic region; whilst his feet and legs remain ed in the mean time unmersed in warm water. Doctor Currie recommends a bladder of warm wa for to the pit of the stowach. Hellie advised pictions of aqua ammonia over the Epigastic regiow. To afrist these, we may also apply Volatite Alkali to the nostrils. As soon as sensibility is sufficiently restored, and the patient is able to swallow; stimulating dinks, as brandy and water, warm wind the should be given in small quantities, and frequently repeated. Cooper recommends injections of warm wine.

If the reaction should be so victout as to produce fever, this should be subduced by new-eder applicable to that condition.

By some it is recommended, that the patient

In the purpose that quarding mity of making de on the sys Jephyxia; and ing Frost-bite. the system no tarfre under He tuly to a part Jangeene will are, where the Meets of cold, al In this case no 4 to arise; nor musture stimulo

instead of being brought into a warm room, be placed in a low temperature, and subbed with ice or new, or was immersed altogether in mow, or ice cold water In the purpose of restoring heat more gradually, and of thus quarding against the effects of too violent a reaction, by premature, or too sudden application of heat. But Doctor Hellie has suggested the propriety of making a distruction between the effects of cold on the system generally, as producing toops or Asphysia; and its local effects on a limb, produ cing Frost-bite. In the latter state, the powers of the system remain more easily excitable; if heat Therefore under these circumstances be applied too sud dealy to a part that is prozen, inflammation and gaugeene will be the result. But in the other case, where the pystem generally, feels the redative effects of cold, all the cital powers are suppreped In this case so forceful an action is not so like by to arise; nor destruction of parts to susue from premature stimulation, as all the sentorial functions

had been sus The L estion of cold byen of its inte uposed to cold, mording to Th Atta a time the Mare the cold pale, though the as present. To tuding this clear we, there is f If und hadden transition ing into a wa lug, itoling sen increased to an o had been suspended.

The Local effects resulting from the application of total to be prospected parts defined on the degree of its intensity. Then positions of the body are deposed to cold, they become of a red colone, and according to Thompson; from a tingescence of this blenteepole, we always find a blight mount of reliance after a time the parts appear a blight mount of reliance of the best to the cold time. There we consider the cold to fine instance, the member which were consulty broffers at the stock out of the beautiful the person himself is not at all ling aware of what is going on, mutil someoned by some one present. There is a stopping and must must not be trained to do any of colone in some cases however.

If under these circumstances there be a sudden transition to hear, from the patient going into a warm room, or near a frie, a ting-ling, it oling searation is produced; and is often increased to an interest glow, with pain. This being increased to an interest glow, with pain. This being

1 is Thompson Vold, but to stration of tem tow the predir spinned by La New that infla In change for Varing the Aug rachable cold. 1 20, to 30 d lift none of Id as some as the

33-

panuttul to go av. infammalim is often ble consequence. This is Thompsons first species of Generalitie, his second is when sericaline, supplymaline, as ulceration bakes blace.

These phenomena are produced by a Moderate degree of cold, followed by the application of heat Richter was the first, who explained that there ap. pearances were not owing to the direct application of cold, but to the reaction that takes place in the system. They are the Secondary, or indirect effects of a reduction of temperature. Pold is therefore no more than the predisposing cause of Chilblains. This is confirmed by Larry, who gives many facts which show that inflammation is excited by the sud. den change from a cold to a warm temperature During the Aufrica expidition, the weather was remarkably cold, yet although the themometer fell from 20, to 30 degrees below the freezing point of Faht now of the soldier experienced any inconvenience but as soon as the thousanter rose to 6 n 8 degrees

gain in their ficial parts witers with the whole sy to post litter larly altended alore the furjuly print, many began to emplain of seat pain in thin feet, sumbuly of their valunction on hother the base of the seat a slight reducts was preceptively about the base of the two mans appear past of the post, the too being deputed of heart. soon became of a black colour, and hard constituted

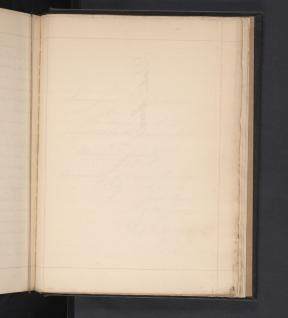
Man a very institute reque of cold is applied the visitable of greater on life portion of the visitable, by the different parts, or white immediately distinguish by the different moderation of colds, or a gargement information is secret actual of placeled of the countyment.

Although much difference of opinion exists among winters with respect to the teachers of present which the sold system is affected by cold. Here appears to be some solare part only are subjected in influence its bear here show the sudden application of how to from her bear here for the vectoring influence town, and gargener, it is independently seeily asset part that a due regulation of the temperature should be puttingly all all the part also all and gargener.

my gradually led with our If there will be gradua k too suddenly Subam of Co I in the same to y advised the Vould to be trea very gradually. It is discould that the affected limb he rad but with moves a cee, a immused in very cold water. It to time the operation of which may be afterward gradually raised, it seems as action, and activity granting is particularly in the farmal not with handy, a limbound, friends of particular from the patricular free time of the patricular time and perfect in induced by water time the

If there means are justiciously applied. The part will be gradually nestred to a healthy states, but if had be tro puddedly applied, it may terminate in a characteristic reliable will regime strendbuth of duminate of characteristic of trappellines. Bellum of Copaira 32.

I purilification should be the consequence, it must be had at in the same manner, so when it series from the cause, 30 de ser asserved the application of bis set to destruct the opposition of the destruct of the promision of the blood of the the series and the electric after the spanning of the blood of the trainer and the blood of the series of the



Dorton Case Inau Submit Me